UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address; COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 10/03/2008

Cook Alex Mcfarron Manzo Cummings & Mehler LTD 200 West Adams ST Suite 2850 Chicago, IL 60606 EXAMINER

LEE, EUGENE

ART UNIT PAPER NUMBER

2815 DATE MAILED: 10/03/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/516,082	03/01/2000	Satoshi Murakami	SEL163	3545	

TITLE OF INVENTION: SEMICONDUCTOR DEVICE COMPRISING A THIN FILM TRANSISTOR COMPRISING A SEMICONDUCTOR THIN FILM AND METHOD OF MANUFACTURING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$1440	\$1510	01/05/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBL	JUATION	S FEE OF R	equired)	Blocks I t	hrough 5	should t	oe comple	ted whe
appropriate. All further correspondence including the Patent, advance orders and notification	on of mair	ntenance fee	s will be	mailed to	the currer	it correst	pondence :	address :
appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new	correspon	ndence addr	ess: and/o	or (b) indic	ating a se	parate "F	EE ADDI	RESS" 6
naintenance fee notifications.								

maintenance fee notification		terwise in Diock 1, 0) (a) specifying a new corre-	pondence address,	and or (b) marcaing a sep	ARRIC TELETIES PRESSO TO		
CURRENT CORRESPONDE	NCE ADDRESS (Note: Use BI	ock 1 for any change of address)	Not Fee pap hav	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanyin papers. Each additional paper, such as an assignment or formal drawing, mu- have its own certificate of mailing or transmission.				
	7590 10/03	/2008	iii.					
Cook Alex Mcfa Cummings & Me 200 West Adams	hler LTD		I he Stat addi tran	cabo cartify that thi	ificate of Mailing or Tran s Fee(s) Transmittal is bein ith sufficient postage for fi Stop ISSUE FEE address (O (571) 273-2885, on the	ismission g deposited with the United rst class mail in an envelope s above, or being facsimile date indicated below.		
Suite 2850						(Depositor's name)		
Chicago, IL 6060	0					(Signature)		
						(Date)		
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/516,082	03/01/2000		Satoshi Murakami		SEL163	3545		
TITLE OF INVENTION: AND METHOD OF MAN			A THIN FILM TRANSIST	OR COMPRISING	A SEMICONDUCTOR T	HIN FILM		
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) DUI	E DATE DUE		
nonprovisional	NO	\$1510	80	\$1440	\$1510	01/05/2009		
EXAMI	NER	ART UNIT	CLASS-SUBCLASS]				
LEE, EU		2815	257-347000					
1. Change of corresponder CFR 1.363). Change of correspon Address form PTO/SB/ "Fee Address" indic PTO/SB/47; Rev 03-02 Number is required.	ndence address (or Cha 1122) attached.	nge of Correspondence	2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be	3 registered patent vely, e firm (having as a igent) and the name rneys or agents. If i	attorneys 1			
	ss an assignee is ident in 37 CFR 3.11. Comp NEE	ified below, no assignee pletion of this form is NO	(B) RESIDENCE: (CITY	atent. If an assigne assignment. and STATE OR C	OUNTRY)	document has been filed for		
4a. The following fee(s) ar			-		v previously paid issue fee			
Issue Fee	e suomittea:	44	D. Payment of Pee(s): (Plea	ise iirst reappiy an	y previously paid issue lee	: snown above)		
Publication Fee (No	small entity discount r	permitted)	Payment by credit car	d. Form PTO-2038	is attached.			
Advance Order - #				authorized to char	ge the required fee(s), any d	leficiency, or credit any an extra copy of this form).		
5. Change in Entity Statu								
a. Applicant claims					L ENTITY status. See 37 C			
interest as shown by the re	cords of the United Sta	tes Patent and Trademark	Office.	ne applicant; a regi:	stered attorney or agent; or	the assignee or other party ir		
Authorized Signature _				Date				
Typed or printed name				Registration N				
This collection of informa an application. Confidenti- submitting the completed this form and/or suggestio Box 1450, Alexandria, Vin Alexandria, Virginia 2231.	tion is required by 37 C ality is governed by 35 application form to the ns for reducing this bur reginia 22313-1450. DC 3-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or a 1.14. This collection is est depending upon the individence Chief Information Office COMPLETED FORMS To	etain a benefit by the imated to take 12 m idual case. Any co er, U.S. Patent and D THIS ADDRESS	ne public which is to file (an ninutes to complete, includi mments on the amount of t Frademark Office, U.S. Dej , SEND TO: Commissioner	nd by the USPTO to process; ing gathering, preparing, and ime you require to complete partment of Commerce, P.O. r for Patents, P.O. Box 1450		

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



Chicago, IL 60606

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

COMMISSIONER FOR PATENTS P O Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/516,082	03/01/2000	Satoshi Murakami	SEL163	3545	
7:	90 10/03/2008	EXAMINER			
Cook Alex Mcfa	rron Manzo	LEE, EUGENE			
Cummings & Meh		ART UNIT	PAPER NUMBER		
200 West Adams ST Suite 2850			2815 DATE MAILED: 10/03/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 09/516.082 MURAKAMI ET AL. Notice of Allowability Framiner Art Unit FUGENE LEE 2815 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 8/22/08. 2. X The allowed claim(s) is/are 46,47,52,53,56,58,59,61,62,64,65,67,68,70,71,73,74,76-78,81,83,85,86,88-90,92,93,95,96,98-100, 102, 103, 105, 106, 108, 119, 120, 122, 123, 125, 126, 128-130, 132, 133, 135, 136 and 138-145. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \(\Pi \) Some* c) \(\Pi \) None of the: 1. X Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. _____. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) Including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application Notice of Draftperson's Patent Drawing Review (PTO-948) ☐ Interview Summary (PTO-413). Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. ☐ Examiner's Amendment/Comment Paper No./Mail Date 9/18/08.8/22/08 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. Other _____. /Eugene Lee/ Primary Examiner, Art Unit 2815

Art Unit: 2815

DETAILED ACTION

Allowable Subject Matter

1. Claims 46, 47, 52, 53, 56, 58, 59, 61, 62, 64, 65, 67, 68, 70, 71, 73, 74, 76 thru 78, 81, 83, 85, 86, 88 thru 90, 92, 93, 95, 96, 98 thru 100, 102, 103, 105, 106, 108, 119, 120, 122, 123, 125, 126, 128 thru 130, 132, 133, 135, 136, and 138 thru 145 are allowed. The following is an examiner's statement of reasons for allowance: The references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the interlayer insulating film and the first conductive layer, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the second opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening, wherein the pixel electrode is in contact with a portion of the color filter in the second opening.

Regarding claims 52, 58, 61, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the first interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the passivation film, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first

Application/Control Number: 09/516,082

Art Unit: 2815

conductive layer through the second opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening, wherein the pixel electrode is in contact with a portion of the color filter in the second opening.

Regarding claims 56, 59, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the interlayer insulating film, the first conductive layer and the first thin film transistor, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the second opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening, wherein the pixel electrode is in contact with a portion of the color filter in the second opening.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/516,082

Art Unit: 2815

INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EUGENE LEE whose telephone number is (571)272-1733. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eugene Lee September 26, 2008 /Eugene Lee/ Primary Examiner, Art Unit 2815